

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-53 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The prior art references of record, i.e., Kammer et al (ISBN: 1-928994-42-3, "Bluetooth Application Developer's Guide"), Beck et al. (US 6,604,140) and Howe (US 2005/0058149), in combination, teaches and suggests a method for performing device detection and service discovery in a mobile ad hoc communications network conducting an inquiry to discover at nearby devices, providing application and service discovery, creating a wireless short-range communication connection to discovered nearby device, perform application and service discovery with said nearby device (see Kammer, pages 20-21, page 24, page 41-42).

Beck teaches and suggests method and apparatus and computer product that enables computing devices to discover and use services in an ad hoc network. Beck teaches a middleware enables a device to discover and advertise to use services, the advertiser creates a service descriptor containing information about the service name, function, codes for implementing the service (see Beck, the abstract, column 2 lines 45-60, column 4 lines 45-55).

Howe teaches and discloses a method and system for time scheduled and time reservation packet switching and providing synchronizing data, time slots packets, frames and disclosing some indication bits may optionally be placed anywhere in a packet (see Howe, the abstract, pp [370]-[373]).

However, Kammer, Beck and Howe, in combination, neither teach nor suggest conducting an inquiry to discover at nearby devices by determining whether a discovered nearby device provides an indication that it may include a middleware software, which is configured for providing application and service discovery, when the discovered nearby device does not provide an indication that it may include the middleware software, then disconnect communication session establishment with the

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discovered nearby device, when the discovered nearby device provides an inquiry request result includes an indication that it may include the middleware layer software, executing the middleware software to perform application and service discovery with said nearby device.

Therefore, claims 1-53 are deemed allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY C. HO whose telephone number is (571)270-1108. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Huy C Ho/

Examiner, Art Unit 2617

/Charles N. Appiah/
Supervisory Patent Examiner, Art Unit 2617